

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
6 May 2005 (06.05.2005)

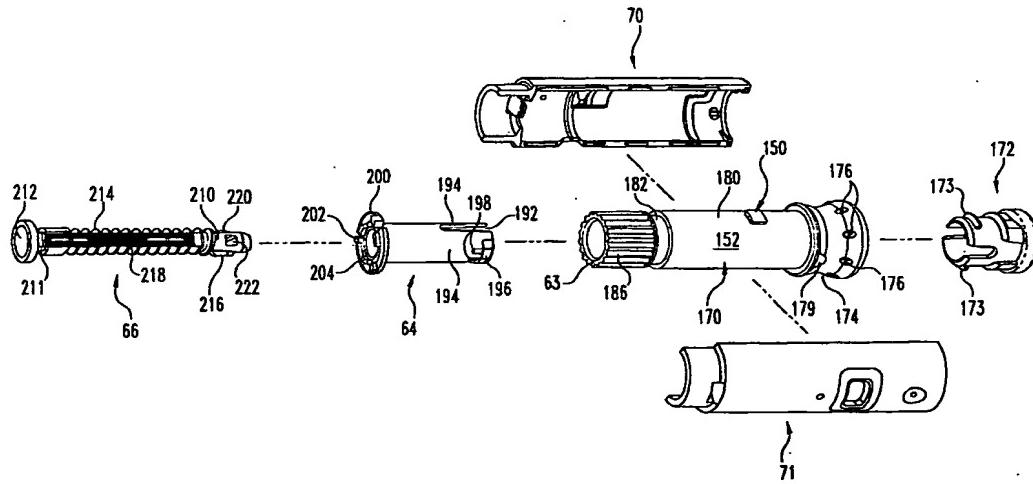
PCT

(10) International Publication Number
WO 2005/039676 A1

- (51) International Patent Classification⁷: **A61M 5/315**
- (21) International Application Number:
PCT/US2004/032304
- (22) International Filing Date: 15 October 2004 (15.10.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/511,735 16 October 2003 (16.10.2003) US
- (71) Applicant (for all designated States except US): **ELI LILLY AND COMPANY [US/US]**; Lilly Corporate Center, Indianapolis, IN 46285 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **BARRON, Traci, Jo [US/US]**; 1621 West North Avenue Unit 3W, Chicago, IL 60622 (US). **BURROUGHS, Andrew, Christopher [US/US]**; 7404 7th Avenue, Kenosha, WI 53143 (US).
- (74) Agents: **PREIN, Edward, J. et al.; ELI LILLY AND COMPANY, P. O. Box 6288, Indianapolis, IN 46206-6288 (US).**
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: **FIXED DOSE MEDICATION DISPENSING DEVICE**



WO 2005/039676 A1

(57) Abstract: A guide and follower cooperate to promote a user moving the driver relative to the housing along a travel path that operates the apparatus. The cooperating elements of the nut and the driver are disengaged when the driver is disposed in a reset segment of the travel path, and the cooperating elements of the nut and the driver become engaged when the driver is shifted through a nut engaging segment of the travel path from the reset segment to a nut rotating segment of the travel path. The engagement of the cooperating elements of the nut and the driver cause the nut to screw proximally along the threaded shaft of the drive member when the driver is shifted through the nut rotating segment from the nut engaging segment to an injecting section of the travel path. When the driver is shifted through the injecting section from the nut rotating segment to the reset segment, the nut and the drive member are shifted in the distal direction to axially advance a fluid container piston to dispense medicine, and the cooperating elements of the nut and the driver become disengaged.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*